PART V

Crops

Major Crops

taling on

Farming in Lincoln County is specialized, being predominantly dependent on two crops: wheat and barley. Almost all the cropland is in these cash grain crops. Wheat is dominant, being harvested from 278,200 acres in 1958. In 1954 at the time of the U. S. Census, wheat was cut from 287,000 acres which represented over 75 percent of the harvested cropland. The second major crop has been barley in the last few years. A total of 74,506 acres of barley for grain was harvested during 1954. This represented nearly 18 percent of the harvested cropland. A total of 122,200 acres of barley was harvested in 1958. Alfalfa has been the third major crop in the county. Oats usually are fourth in importance. A sizable amount of wild hay and grain hay is harvested each year. Minor crops are rye, timothy and clover grown as a mixture for hay and dry field and seed peas.

Total Acres of Land Harvested, 1954 421,514 Acres

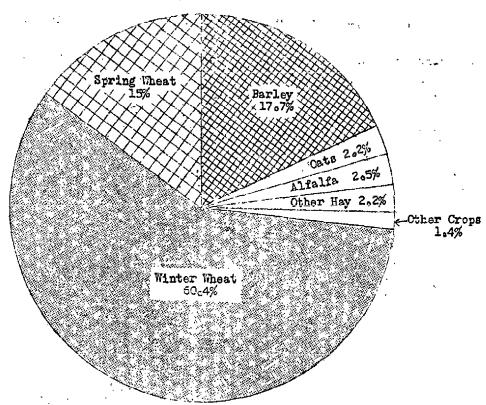


Figure 9. Percent of Total Cropland in Leading Crops
Lincoln County, 1954

(Based on U.S. Census of Agriculture, 1954)

Crop Trends

The crop history of a region reflects economic changes occurring within it. Both hay and grain crops have had rising trends since 1939. Increase in grain acreage was much greater than that of hay. In 1954, wheat, barley, alfalfa and oats were harvested from 407,910 acres or 86.7 percent of the cropland. As cropland was expanded, more wheat, barley, alfalfa and oats were planted. Since 1954 the composition of the crops of the county has changed markedly because of the Federal Acreage Allotment Program. Wheat acreage has gone down and barley, oats, rye and alfalfa have been substituted on land taken out of wheat. Better hay crops, particularly alfalfa, have also become more important in recent years, being associated with increased livestock farming.

Wheat Farming

Lincoln County is the second most important wheat producing county in Washington and also ranked second in the United States in 1954. Throughout the county's history the most important crop has been wheat. Grown on the drylands of the Big Bend region, it was the first important commercial crop grown by the pioneer farmers. The summer-fallow, dry-farming system is widely used in wheat growing. Some 895 farms reported 392,000 acres of cultivated summer fallow during 1954. Most of this was used in wheat farming. Winter wheat is sown in the fall to take advantage of winter moisture and protective snow cover. Heavier and more reliable yields are obtained through this system.

Table 17.- Wheat and Barley: Acreage, Yield and Production Lincoln County, 1939-1958

		All Whea	t	Barley			
Year	Acreage (acres)	Yield (bushels per acre)	Froduction (bushels)	Acreage (acres)	Yield (bushels per acre)	Production (bushels)	
1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949	330,000 350,000 350,000 279,000 329,600 373,700 410,800 407,000 407,000 400,000 370,000	21.0 17.0 26.5 33.7 29.0 27.0 28.3 32.5 26.1 25.3 33.5	6,921,000 6,120,000 9,268,100 9,394,800 9,568,000 10,076,000 11,621,200 13,648,200 10,622,000 11,998,000 10,102,000 12,396,000	3,280 11,400 11,500 37,000 23,500 10,200 6,100 3,100 2,600 2,600 2,240 29,000	27.5 20.0 34.0 40.0 36.5 36.5 36.0 27.5 30.0 22.0 35.0	90,300 227,900 391,000 1,479,500 846,000 392,600 219,600 120,900 71,500 78,000 49,300 1,015,000	
1951 1952 1953 1954 1955 1956 1957	420,000 427,000 422,200 316,200 279,200 284,000 258,500 278,200	29.2 27.6 33.4 33.4 29.8 29.6 42.7 42.1	12,271,000 11,804,200 14,100,500 10,551,700 8,311,200 8,414,800 11,042,700 11,717,500	4,000 3,000 4,800 76,000 98,000 111,600 139,800 122,200	32.5 36.5 40.0 41.0 25.0 33.8 47.0 33.2	130,000 109,500 192,000 3,116,000 2,450,000 3,730,000 6,570,600 4,056,700	

Source: U.S.D.A., AMS, Agric. Estimates Division State of Washington

CHEDOMATOR I		Spring Whe	at	Winter Wheat				
Year	Acreage (acres)	Yield (bushels per acre)	Production (bushels)	Acreage (acres)	Yield (bushels per acre)	Production (bushels)		
1939 1940 1941 1942 1943 1944 1945 1946 1949 1950 1951 1952 1953	192,000 327,000 105,000 65,000 213,600 216,800 185,000 31,600 103,000 30,000 41,000 47,000 38,000 126,800	18,9 16.6 21.0 31.6 27.1 23.9 25.0 26.3 24.3 25.0 19.0 25.5 23.0 24.0 28.5	3,633,000 5,427,000 2,205,000 2,082,500 5,795,000 5,186,100 4,625,000 831,000 2,505,000 750,000 285,000 1,045,500 1,081,000 912,000 3,613,800	138,000 33,000 245,000 213,000 116,000 156,900 225,800 388,400 304,000 370,000 385,000 329,000 373,000 389,000 295,400	23.8 21.0 28.8 34.3 32.5 31.0 33.0 26.7 30.4 25.5 34.5 28.8 28.0 35.5	3,288,000 593,000 7,063,100 7,312,300 3,773,000 4,889,900 6,996,200 12,817,200 8,117,000 11,248,000 9,817,000 1,135,500 11,190,000 10,892,200 10,486,700		
1954	36,200	28,5	1,031,700	280,000	34.0	9,520,000		
1955 1956	7,200 115,700	21,0 32.0	151,200 3, 7 02,400	272,000 168,300	30.0 28.0	8,160,000 4,712,400		
1957	11,200	36.5	408,800	247,300	43.0	10,633,900		
1958	11,400	21,5	245,100	266,800	43.0	11,472,400		

Table 18.- Spring Wheat and Winter Wheat Lincoln County, 1939-1958

Source: U.S.D.A., AMS, Agric. Estimates Division State of Washington

In 1954 almost 75 percent of the cropland was devoted to wheat, most of which was fall seeded. According to 1958 estimates of the Washington Crop and Livestock Reporting Service, a total of 278,200 acres yielded 11,717,500 bushels, or 42.1 bushels per acre. Only 12,400 acres was soring planted. Production since 1939 has ranged from a low of 6,120,000 bushels in 1940 to a high of 14,100,500 bushels in 1953. Variations in climatic conditions and fertilization practices have resulted in yields varying from a low of 17 bushels per acre in 1940 to a peak of 42.1 bushels per acre in 1958. Wheat yield has averaged over 30 bushels per acre in recent years. Sharp acreage declines occurred in 1954 and 1955 as a result of the Federal Acreage Allotment program.

While both spring and winter wheat are planted, winter wheat is generally preferred. Since 1945 acreage planted to winter wheat has been much greater than spring wheat on the average. In most years fall moisture is favorable for germination and there is sufficient snow cover to insure against winter-kill from extreme cold temperatures. When winter wheat is damaged by winter-kill it is usually reseeded to spring wheat.

Lincoln County farmers have experimented with many varieties to get higher yields. In 1956 common-white wheat and white-club wheat shared almost equally nine-tenths of the crop. Idaed and Marfed were the most popular common-white wheat varieties. Elmar and Elgin were the leading white-club varieties.

Elmar accounted for one-third of the wheat crop in Lincoln County in 1956. The county also produces considerable hard-red winter wheat of the Turkey and Rio varieties. These are grown on the drylands receiving less than 16 inches of annual rainfall and accounted for one-tenth of the crop in 1956.

Table 19.- Varieties of Wheat Grown in Lincoln County, 1956

	roduction	Percent of
of Wheat	(bushels)	Total Crop
Common-White Wheats		
	1,571,000	18.7
Marfed	1,203,000	14.3
Baart	748,000	8.9
Major-Bluestem	170,600	2,0
Brevor	111,100	1.3
Golden	8,600	.1
Federation	1,600	Tr.
Burtana	1,000	Tr.
White-Club Wheats		
Elmar	000,287د2	33.1
Elgin	948,000	11.3
Hymar	17,200	.3
Omer	8,700	Tr
Hard-Red Winter Wheats		
Turkey & Rio	835,800	9.9
Hard-Red Spring Wheats		
liemy	8,200	.1
Total all classes and varieties		

Source: U.S.D.A., AMS, Agric. Estimates Division, State of Washington

Barley, Oats and Other Small Grains

Barley is the second leading crop of Lincoln County and production is second among Washington counties. Acreage increased during World War II with a peak of 37,000 acres in 1942. From this it declined to a low of 2,240 acres in 1949. A small shift from wheat to barley occurred in 1950 with 29,000 acres being planted to barley. The Federal Acreage Allotment program on wheat caused a shift to barley, increasing its importance since 1954. By 1958 a new high of 122,200 acres of barley was harvested. Most of the barley crop is sold from the farms where it is grown. Yields are good with the average above 35 bushels per acre in most years. The lew yield was 20 bushels per acre in 1940 and the peak was 41 bushels per acre in 1954. Most barley is grown under the summerfallow, fall-seeded system.

Lincoln County ranks eighth in state oat production. Oats have followed an acreage trend similar to that of barley. A peak acreage was reached in 1942 with 15,600 acres. Oats then went down to 2,040 acres in 1948, but have been on an upward trend since 1951. Oats are a popular feed grain and only a little

over half the crop is generally sold. Yields are fair with a low of 26 bushels per acre in 1940 and a high of 50 bushels per acre in 1943.

Rye is a minor grain crop. There has been a recent upturn in rye acreage. In 1955 there were 1,200 acres of rye harvested. About two-thirds of the rye crop is sold.

Table 20	Oats	and Rye	: Acres	age, Yiel	d and	Production
•	٠.	Lincoln	County,	Ĩ939 ~1 95	6	

Ly Proposition + STATE		Oats (for g	rain)	Rye (for grain)			
Year	Acreage (acres)	Yield (bushels per acre)	Production (bushels)	Acreage (acres)	Yield (bushels per acre)	Production (bushels)	
1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953	3,390 4,100 7,200 15,600 13,000 5,300 2,400 2,400 2,300 2,040 2,500 9,300 4,100 4,900 6,300	33.5 26.0 38.0 49.5 50.0 44.0 39.0 48.0 31.0 33.0 46.0 49.0	113,600 106,600 273,600 772,200 650,000 233,200 120,900 115,200 85,100 69,360 82,500 427,800 201,000 235,200 263,500	330 550 770 960 840 140 420 210 300 470 220 700 560 180 220	11,2 11,6 14,9 20,0 15,7 15,5 13,8 12,0 15,1 14,6 15,7 9,1 7,5	3,700 6,400 11,500 19,200 9,200 6,900 6,500 2,900 3,600 7,100 3,220 11,000 5,100 1,350 3,200	
1954 1955 1956	9,500 8,500 4,200	43.0 37.0 35.0	408,500 314,500 147,000	1,100 1,200 1,100	12.5 8.0 15.0	13,700 9,600 16,500	

Source: U.S.D.A., AMS, Agric. Estimates Divn. State of Washington

Alfalfa, Other Hay and Silage

More local feed crops are being grown as a result of increases in beef cattle. Alfalfa in recent years has become the third major crop in Lincoln County. In 1954, alfalfa ranked third with only 2.5 percent of the harvested cropland, or 11,000 acres. Acreage has expanded as new and better varieties of alfalfa were introduced, increasing from a low of 2,900 in 1939 to a peak of 12,900 acres in 1955. Alfalfa acreage doubled between 1952 and 1955. A total of 377 farms cut alfalfa for hay in 1954 with production totaling 22,000 tons. Hay sales are a minor source of income. Only 2,500 tons of alfalfa were sold from a total of 59 farms during 1954.

Clover and timothy grown as a mixture for hay is a minor feed crop. With a low of 700 acres in 1939, clover and timothy acreage increased to a high of about 1,200 acres in 1953. By 1955, this had declined again to 960 acres. In 1954 there were 37 farms growing timothy and clover. Less than one-tenth of the crop was sold.

Small grains cut for hay have been declining. In 1949 there were 9,800 acres of grain hay but by 1954 this had fallen to 5,800 acres. A total of 322 farms in 1954 reported cutting small grains for hay. The acreage decline is related to an increasing preference for alfalfa and other silage exprs and to the type of season.

Wild hay was cut on 3,360 acres on 83 farms in 195h which was an increase of 700 acres over 1949. Almost-all wild hay is consumed on the farms where it is grown. In addition to this, about 1,800 acres of other hay (grasses, sweet clover) were cut in 195h. This was about 5 percent of the harvested cropland.

Silage is a newer practice in Lincoln County. During 1954, 10 farms cut alfalfa, grasses, clover or small grains on 330 acres for grass silage. Because of the difficulty of harvesting hay in good condition, silage cutting and storing has been adopted by more farms in recent years.

Table 21. Clover-Timothy Hay and Alfalfa Hay Acreage, Yield and Production Lincoln County, 1939-1955

	Clov	er and Timo	chy Hay	Alfalfa Hav			
Year	Acreage (acres)	Yield (tons per acre)	Production (tons)	Acreage (acres)	Yield (tons per acre)	Production (tone)	
1939 1940 1941 1943 1944 1946 1946 1950 1951 1953 1953 1953	700 640 640 730 800 770 830 850 980 990 1,000 1,000 1,000 1,180 980 980	2.0 1.5 2.1 2.1 2.1 2.1 2.3 1.0 2.1 2.3 1.0 2.0 2.1 2.0 2.1	1,500 1,000 1,300 1,650 1,650 1,660 1,680 1,760 2,080 2,270 1,810 1,000 1,950 2,400 2,330 1,300	2,900 3,500 4,400 4,500 4,500 4,500 4,500 5,600 5,400 6,400 8,100 11,000	1.6 1.9 1.8 1.9 2.4 1.6 1.8 1.7 2.0 1.4 1.7 2.0 2.1 2.1	4,600 6,760 7,900 8,900 12,500 7,200 8,000 8,700 6,100 8,200 9,000 7,600 10,900 12,600 16,700 22,000 18,000	

Scarce: U.S.D.A., AMS, Agric. Estimates Division
State of Washington

Fruit Farming

There has been a declining interest in fruit farming in Lincoln County. The period of 1900-1910 was one of experimentation in apples, plums, peaches and pears in northeastern Lincoln County. In 1900 fruit trees of bearing age were at their peak. The depression years, together with climatic handicaps, made fruit farming so unprofitable in Lincoln County that orchard arandonment became almost complete. By 1954 there were only a few local home use orchards

and bearing trees in orchards of 20 trees or more numbered less than one thousand for the entire area. Some orchard land in the Beach district of northern Lincoln County was flooded by Grand Coulee Dam reservoir.

Table	22	Bearing	Fruit	Trees
Lir	ncoln	County,	1890-1	1954

Year	Numbers of Bearing Trees							
rear	Apples	Apricots	Cherries	Peaches	Pears.	Prunes & Plums		
1890 1900 1910 1920 1930 1940 1950	2,452 98,220 84,402 54,737 15,436 342 1,009	22 4,374 1,563 181 415 28 105	333 8,244 7,278 4,489 831 24 223 71	156 12,837 15,190 22,031 3,857 17 58 421	296 17,493 12,293 7,860 4,641 58 23	743 33,715 10,152 4,182 1,010 22 129 74		

1/1954 figures are for trees in orchards of 20 trees or more.

Sources: Washington Tree Fruits, Washington Crop and

Livestock Reporting Service, USDA and Washington State Dept. of Agric., Cooperating, 1952.

U. S. Census of Agriculture.

Vegetables

Lincoln County is not self-sufficient in vegetable production. Only three farms were growing vegetables for sale in 1954 although over 500 of the county's farms grew vegetables for home use. Minor acreages of sweet corn, dry onions, tomatoes, carrots and snap beans are grown in kitchen gardens.

The amount of potatoes grown in the county for home use and sale has been increasing in recent years. There were 50 acres of potatoes harvested on over 250 farms during 1954. Production totaled 4,700 bags. In 1949 only 17 acres and 1,500 bags were harvested.